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Asn Gln Val Ala His Val Lys Ala Glu Arg Asp Ile Leu Ala Glu Ala
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Asp Asn Glu Trp Val Val Lys Leu Tyr Tyr Ser Phe Gln Asp Lys Asp
Ser Leu Tyr Phe Val Met Asp Tyr Ile Pro Gly Gly Asp Met Met Ser
Leu Leu Ile Arg Met Glu Val Phe Pro Glu His Leu Ala Arg Phe Tyr
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His	Asn	Ser	Lys 180	Tyr	Tyr	Gln	Lys	Gly 185	Ser	His	Val	Arg	Gln 190	Asp	Ser
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Pro	Thr	Pro 275	Thr	Glu	Thr	Gln	Leu 280	Lys	Val	Ile	Asn	Trp 285	Glu	Asn	Thr
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Ala	Asp	Asp	Leu	Lys 325	Ala	His	Pro	Phe	Phe 330	Ser	Ala	Ile	Asp	Phe 335	Ser
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Pro 385	Asn	Asn	Lys	His	Pro 390	Glu	His	Ala	Phe	Tyr 395	Glu	Phe	Thr	Phe	Arg 400
Arg	Phe	Phe	Asp	Asp 405	Asn	Gly	Tyr	Pro	Phe 410	Arg	Cys	Pro	Lys	Pro 415	Ser
Gly	Ala	Glu	Ala 420	Ser	Gln	Ala	Glu	Ser 425	Ser	Asp	Leu	Glu	Ser 430	Ser	Asp
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Leu Glu Tyr Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro
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Asp Asn Leu Leu Ile Thr Ser Met Gly His Ile Lys Leu Thr Asp Phe 65 70 75 80

Gly Leu Ser Lys Met Gly Leu Met Ser Leu Thr Thr Asn Leu Tyr Glu 85 90 95

Gly His Ile Glu Lys Asp Ala Arg Glu Phe Leu Asp Lys Gln Val Cys 100 105 110

Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Leu Arg Gln Gly Tyr 115 120 125

Gly Lys Pro Val Asp Trp Trp Ala Met Gly Ile Ile Leu Tyr Glu Phe 130 135 140

Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro Glu Glu Leu Phe 145 150 155 160

Gly Gln Val Ile Ser Asp Asp Ile Leu Trp Pro Glu Gly Asp Glu Ala 165 170 175

Leu Pro Thr Glu Ala Gln Leu Leu Ile Ser Ser Leu Leu Gln Thr Asn 180 185 190

Pro Leu Val Arg Leu Gly Ala Gly Gly Ala Phe Glu Val Lys Gln His 195 200 205

Ser Phe Phe Arg Asp Leu Asp Trp Thr Gly Leu Leu Arg Gln Lys Ala 210 215 220

Glu Phe Ile Pro His Leu Glu Ser Glu Asp Asp Thr Ser Tyr Phe Asp 225 230 235 240

Thr Arg Ser Asp Arg Tyr His His Val Asn Ser Tyr Asp Glu Asp Asp 245 250 255

Thr Thr Glu Glu Glu Pro Val Glu Ile Arg Gln Phe Ser Ser Cys Ser 260 265 270

- Pro Arg Phe Ser Lys Val Tyr Ser Ser Met Glu Gln Leu Ser Gln His 275 280 285
- Glu Pro Lys Thr Pro Val Ala Ala Ala Gly Ser Ser Lys Arg Glu Pro 290 295 300
- Ser Thr Lys Gly Pro Glu Glu Lys Val Ala Gly Lys Arg Glu Gly Leu 305 310 315 320
- Gly Gly Leu Thr Leu Arg Glu Lys Thr Trp Arg Gly Gly Ser Pro Glu
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- Ile Lys Arg Phe Ser Ala Ser Glu Ala Ser Phe Leu Glu Glu Glu Ala 340 345 350
- Ser Pro Pro Leu Gly Ala Arg Arg Phe Ser Ala Leu Leu Glu Pro 355 360 365
- Ser Arg Phe Ser Ala Pro Gln Glu Asp Glu Asp Glu Ala Arg Leu Arg 370 375 380
- Arg Pro Pro Arg Pro Ser Ser Asp Pro Ala Gly Ser Leu Asp Ala Arg 385 390 395 400
- Ala Pro Lys Glu Glu Thr Gln Gly Glu Gly Thr Ser Ser Ala Gly Asp 405 410 415
- Ser Glu Ala Thr Asp Arg Pro Arg Pro Gly Asp Leu Cys Pro Pro Ser 420 425 430
- Lys Asp Gly Asp Ala Ser Gly Pro Arg Ala Thr Asn Asp Leu Val Leu 435 440 445
- Arg Arg Ala Arg His Gln Gln Met Ser Gly Asp Val Ala Val Glu Lys 450 455 460
- Arg Pro Ser Arg Thr Gly Gly Lys Val Ile Lys Ser Ala Ser Ala Thr 465 470 475 480
- Ala Leu Ser Val Met Ile Pro Ala Val Asp Pro His Gly Ser Ser Pro 485 490 495
- Leu Ala Ser Pro Met Ser Pro Arg Ser Leu Ser Ser Asn Pro Ser Ser 500 505 510
- Arg Asp Ser Ser Pro Ser Arg Asp Tyr Ser Pro Ala Val Ser Gly Leu
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- Arg Ser Pro Ile Thr Ile Gln Arg Ser Gly Lys Lys Tyr Gly Phe Thr 530 535 540
- Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Thr Asp Val Tyr Ser Val 545 550 555 560
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- Gly Leu Cys Ala Gly Asp Leu Ile Thr His Val Asn Gly Glu Pro Val 580 585 590
- His Gly Met Val His Pro Glu Val Val Glu Leu Ile Leu Lys Ser Gly
  595 600 605
- Asn Lys Val Ala Val Thr Thr Pro Phe Glu Asn Thr Ser Ile Arg 610 615 620
- Ile Gly Pro Ala Arg Arg Ser Ser Tyr Lys Ala Lys Met Ala Arg Arg 625 630 635 640
- Asn Lys Arg Pro Ser Ala Lys Glu Gly Gln Glu Ser Lys Lys Arg Ser 645 650 655
- Ser Leu Phe Arg Lys Ile Thr Lys Gln Ser Asn Leu Leu His Thr Ser 660 665 670
- Arg Ser Leu Ser Ser Leu Asn Arg Ser Leu Ser Ser Asp Ser Leu 675 680 685
- Pro Gly Ser Pro Thr His Gly Leu Pro Ala Arg Ser Pro Thr His Ser 690 695 700
- Tyr Arg Ser Thr Pro Asp Ser Ala Tyr Leu Gly Ala Ser Ser Gln Ser 705 710 715 720
- Ser Ser Pro Ala Ser Ser Thr Pro Asn Ser Pro Ala Ser Ser Ala Ser 725 730 735
- His His Ile Arg Pro Ser Thr Leu His Gly Leu Ser Pro Lys Leu His 740 745 750
- Arg Gln Tyr Arg Ser Ala Arg Cys Lys Ser Ala Gly Asn Ile Pro Leu 755 760 765
- Ser Pro Leu Ala His Thr Pro Ser Pro Thr Gln Ala Ser Pro Pro Pro 770 775 780
- Leu Pro Gly His Thr Val Gly Ser Ser His Thr Thr Gln Ser Phe Pro 785 790 795 800
- Ala Lys Leu His Ser Ser Pro Pro Val Val Arg Pro Arg Pro Lys Ser 805 810 815
- Ala Glu Pro Pro Arg Ser Pro Leu Leu Lys Arg Val Gln Ser Ala Glu 820 825 830
- Lys Leu Gly Ala Ser Leu Ser Ala Asp Lys Lys Gly Ala Leu Arg Lys 835 840 845
- His Ser Leu Glu Val Gly His Pro Asp Phe Arg Lys Asp Phe His Gly 850 860
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Ser	Ile 50	Ser	Glu	Leu	Thr	Glu 55	Lys	Ile	Leu	Cys	Glu 60	Asp	Pro	Leu	Pro
Pro 65	Ile	Pro	Lys	Asp	Ser 70	Ser	Arg	Pro	Lys	Ala 75	Ser	Ser	Asp	Phe	Ile 80
Asn	Leu	Leu	Asp	Gly 85	Leu	Leu	Gln	Arg	Asp 90	Pro	Gln	Lys	Arg	Leu 95	Thr
Trp	Thr	Arg	Leu 100	Leu	Gln	His	Ser	Phe 105	Trp	Lys	Lys	Ala	Phe 110	Ala	Gly
Ala	Asp	Gln 115	Glu	Ser	Ser	Val	Glu 120	Asp	Leu	Ser	Leu	Ser 125	Arg	Asn	Thr
Met	Glu 130	Cys	Ser	Gly	Pro	Gln 135	Asp	Ser	Lys	Glu	Leu 140	Leu	Gln	Asn	Ser
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Ser	Phe	Arg	Leu	Glu 165	Asn	Pro	Thr	Glu	Phe 170	Arg	Pro	Lys	Gly	Thr 175	Leu
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Pro	Arg	Thr 195	Ser	Thr	Ala	Val	Glu 200	Val	Ser	Pro	Gly	Glu 205	Asp	Met	Thr
His	Cys 210	Ser	Pro	Gln	Lys	Thr 215	Ser	Pro	Leu	Thr	Lys 220	Ile	Thr	Ser	Gly
His 225	Leu	Ser	Gln	Gln	Asp 230	Leu	Glu	Ser	Gln	Met 235	Arg	Glu	Leu	Ile	Tyr 240
Thr	Asp	Ser	Asp	Leu 245	Val	Val	Thr	Pro	Ile 250	Ile	Asp	Asn	Pro	Lys 255	
Met	Lys	Gln	Pro 260	Pro	Val	Lys	Phe	Asp 265	Ala	Lys	Ile	Leu	His 270	Leu	Pro
Thr	Tyr	Ser 275	Val	Asp	Lys	Leu	Leu 280	Phe	Leu	Lys	Asp	Gln 285	Asp	Trp	Asn
Asp	Phe 290	Leu	Gln	Gln	Val	Cys 295	Ser	Gln	Ile	Asp	Ser 300	Thr	Glu	Lys	Ser
Met 305	Gly	Ala	Ser	Arg	Ala 310	Lys	Leu	Asn	Leu	Leu 315	Cys	Tyr	Leu	Cys	Val 320

Val Ala Gly His Gln Glu Val Ala Thr Arg Leu Leu His Ser Pro Leu

Phe Gln Leu Leu Ile Gln His Leu Arg Ile Ala Pro Asn Trp Asp Met 340 345 350

Gln Leu Phe Ser 355

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Gly Ala Leu Thr Glu Asn Val Thr Arg Lys Tyr Thr Arg Gln Ile Leu 20 25 30

Glu Gly Val His Tyr Leu His Ser Asn Met Ile Val His Arg Asp Ile 35 40 45

Lys Gly Ala Asn Ile Leu Arg Asp Ser Thr Gly Asn Val Lys Leu Gly 50 60

Asp Phe Gly Ala Ser Lys Arg Leu Gln Thr Ile Cys Leu Ser Gly Thr 65 70 75 80

Gly Met Lys Ser Val Thr Gly Thr Pro Tyr Trp Met Ser Pro Glu Val 85 90 95

Ile Ser Gly Glu Gly Tyr Gly Arg Lys Ala Asp Ile Trp Ser Val Ala 100 105 110

Cys Thr Val Val Glu Met Leu Thr Glu Lys Pro Pro Trp Ala Glu Phe 115 120 125

Glu Ala Met Ala Ala Ile Phe Lys Ile Ala Thr Gln Pro Thr Asn Pro 130 135 140

Lys Leu Pro Pro His Val Ser Asp Tyr Thr Arg Asp Phe Leu Lys Arg 145 150 155 160

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His Met Phe Val His Tyr His

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Ser	Asp 50	Pro	Ser	Gly	His	Leu 55	Thr	Gly	Met	Val	Gly 60	Thr	Ala	Leu	Tyr
Val 65	Ser	Pro	Glu	Val	Gln 70	Gly	Ser	Thr	Lys	Ser 75	Ala	Tyr	Asn	Gln	80
Val	Asp	Leu	Phe	Ser 85	Leu	Gly	Ile	Ile	Phe 90	Phe	Glu	Met	Ser	Tyr 95	His
Pro	Met	Val	Thr 100	Ala	Ser	Glu	Arg	Ile 105	Phe	Val	Leu	Asn	Gln 110	Leu	Arg
Asp	Pro	Thr 115	Ser	Pro	Lys	Phe	Pro 120	Glu	Asp	Phe	Asp	Asp 125	Gly	Glu	His
Ala	Lys 130	Gln	Lys	Ser	Val	Ile 135	Ser	Trp	Leu	Leu	Asn 140	His	Asp	Pro	Ala
Lys 145	Arg	Pro	Thr	Ala	Thr 150	Glu	Leu	Leu	Lys	Ser 155	Glu	Leu	Leu	Pro	Pro 160
Pro	Gln	Met	Glu	Glu 165	Ser	Glu	Leu	His	Glu 170	Val	Leu	His	His	Thr 175	Leu
Thr	Asn	Val	Asp 180	Gly	Lys	Ala	Tyr	Arg 185	Thr	Met	Met	Ala	Gln 190	Ile	Phe
Ser	Gln	Arg 195	Ile	Ser	Pro	Ala	Ile 200	Asp	Tyr	Thr	Tyr	Asp 205	Ser	Asp	Ile
Leu	Lys 210	Gly	Asn	Phe	Ser	Ile 215	Arg	Thr	Ala	Lys	Met 220	Gln	Gln	His	Val
Cys 225	Glu	Thr	Ile	Ile	Arg 230	Ile	Phe	Lys	Arg	His 235	Gly	Ala	Val	Gln	Leu 240
Cys	Thr	Pro	Leu	Leu 245	Leu	Pro	Arg	Asn	Arg 250	Gln	Ile	Tyr	Glu	His 255	Asn
Glu	Ala	Ala	Leu 260	Phe	Met	Asp	His	Ser 265	Gly	Met	Leu	Val	Met 270	Leu	Pro
Phe	Asp	Leu 275	Arg	Ile	Pro	Phe	Ala 280	Arg	Tyr	Val	Ala	Arg 285	Asn	Asn	Ile
Leu	Asn 290	Leu	Lys	Arg	Tyr	Cys 295	Ile	Glu	Arg	Val	Phe 300	Arg	Pro	Arg	Lys
Leu 305	Asp	Arg	Phe	His	Pro 310	Lys	Glu	Leu	Leu	Glu 315	Cys	Ala	Phe	Asp	Ile 320

- Val Thr Ser Thr Thr Asn Ser Phe Leu Pro Thr Ala Glu Ile Ile Tyr 325 330 335
- Thr Ile Tyr Glu Ile Ile Gln Glu Phe Pro Ala Leu Gln Glu Arg Asn 340 345 350
- Tyr Ser Ile Tyr Leu Asn His Thr Met Leu Leu Lys Ala Ile Leu Leu 355 360 365
- His Cys Gly Ile Pro Glu Asp Lys Leu Ser Gln Val Tyr Ile Ile Leu 370 375 380
- Tyr Asp Ala Val Thr Glu Lys Leu Thr Arg Arg Glu Val Glu Ala Lys 385 390 395 400
- Phe Cys Asn Leu Ser Leu Ser Ser Asn Ser Leu Cys Arg Leu Tyr Lys 405 410 415
- Phe Ile Glu Gln Lys Gly Asp Leu Gln Asp Leu Met Pro Thr Ile Asn 420 425 430
- Ser Leu Ile Lys Gln Lys Thr Gly Ile Ala Gln Leu Val Lys Tyr Gly
  435
  440
  445
- Leu Lys Asp Leu Glu Glu Val Val Gly Leu Leu Lys Lys Leu Gly Ile 450 455 460
- Lys Leu Gln Val Leu Ile Asn Leu Gly Leu Val Tyr Lys Val Gln Gln 465 470 475 480
- His Asn Gly Ile Ile Phe Gln Phe Val Ala Phe Ile Lys Arg Arg Gln 485 490 495
- Arg Ala Val Pro Glu Ile Leu Ala Ala Gly Gly Arg Tyr Asp Leu Leu 500 505 510
- Ile Pro Gln Phe Arg Gly Pro Gln Ala Leu Gly Pro Val Pro Thr Ala 515 520 525
- Ile Gly Val Ser Ile Ala Ile Asp Lys Ile Ser Ala Ala Val Leu Asn 530 535 540
- Met Glu Glu Ser Val Thr Ile Ser Ser Cys Asp Leu Leu Val Val Ser 545 550 555 560
- Val Gly Gln Met Ser Met Ser Arg Ala Ile Asn Leu Thr Gln Lys Leu
  565 570 575
- Trp Thr Ala Gly Ile Thr Ala Glu Ile Met Tyr Asp Trp Ser Gln Ser 580 585 590
- Gln Glu Glu Leu Gln Glu Tyr Cys Arg His His Glu Ile Thr Tyr Val 595 600 605
- Ala Leu Val Ser Asp Lys Glu Gly Ser His Val Lys Val Lys Ser Phe 610 615 620

Glu Lys Glu Arg Gln Thr Glu Lys Arg Val Leu Glu Thr Glu Leu Val 625 630 635 640

Asp His Val Leu Gln Lys Leu Arg Thr Lys Val Thr Asp Glu Arg Asn 645 650 655

Gly Arg Glu Ala Ser Asp Asn Leu Ala Val Gln Asn Leu Lys Gly Ser 660 665 670

Phe Ser Asn Ala Ser Gly Leu Phe Glu Ile His Gly Ala Thr Val Val 675 680 685

Pro Ile Val Ser Val Leu Ala Pro Glu Lys Leu Ser Ala Ser Thr Arg 690 695 700

Arg Arg Tyr Glu Thr Gln Val Gln Thr Arg Leu Gln Thr Ser Leu Ala
705 710 715 720

Asn Leu His Gln Lys Ser Ser Glu Ile Glu Ile Leu Ala Val Asp Leu 725 730 735

Pro Lys Glu Thr Ile Leu Gln Phe Leu Ser Leu Glu Trp Asp Ala Asp 740 745 750

Glu Gln Ala Phe Asn Thr Thr Val Lys Gln Leu Leu Ser Arg Leu Pro . 755 760 765

Lys Gln Arg Tyr Leu Lys Leu Val Cys Asp Glu Ile Tyr Asn Ile Lys 770 775 780

Val Glu Lys Lys Val Ser Val Leu Phe Leu Tyr Ser Tyr Arg Asp Asp 785 790 795 800

Tyr Tyr Arg Ile Leu Phe 805

<210> 20

<211> 530

<212> PRT

<213> Homo sapiens

<400> 20

Met Glu Tyr Ala Ser Lys Gly Glu Leu Tyr Asp Tyr Ile Ser Glu Arg 1 5 10 15

Arg Arg Leu Ser Glu Arg Glu Thr Arg His Phe Phe Arg Gln Ile Val 20 25 30

Ser Ala Val His Tyr Cys His Lys Asn Gly Val Val His Arg Asp Leu 35 40 45

Lys Leu Glu Asn Ile Leu Leu Asp Asp Asn Cys Asn Ile Lys Ile Ala 50 55 60

Asp Phe Gly Leu Ser Asn Leu Tyr Gln Lys Asp Lys Phe Leu Gln Thr 65 70 75 80

- Phe Cys Gly Ser Pro Leu Tyr Ala Ser Pro Glu Ile Val Asn Gly Arg 85 90 95
- Pro Tyr Arg Gly Pro Glu Val Asp Ser Trp Ala Leu Gly Val Leu Leu 100 105 110
- Tyr Thr Leu Val Tyr Gly Thr Met Pro Phe Asp Gly Phe Asp His Lys
  115 120 125
- Asn Leu Ile Arg Gln Ile Ser Ser Gly Glu Tyr Arg Glu Pro Thr Gln 130 135 140
- Pro Ser Asp Ala Arg Gly Leu Ile Arg Trp Met Leu Met Val Asn Pro 145 150 155 160
- Asp Arg Arg Ala Thr Ile Glu Asp Ile Ala Asn His Trp Trp Val Asn 165 170 175
- Trp Gly Tyr Lys Ser Ser Val Cys Asp Cys Asp Ala Leu His Asp Ser 180 185 190
- Glu Ser Pro Leu Leu Ala Arg Ile Ile Asp Trp His His Arg Ser Thr 195 200 205
- Gly Leu Gln Ala Asp Thr Glu Ala Lys Met Lys Gly Leu Ala Lys Pro 210 215 220
- Thr Thr Ser Glu Val Met Leu Glu Arg Gln Arg Ser Leu Lys Lys Ser 225 230 235 240
- Lys Lys Glu Asn Asp Phe Ala Gln Ser Gly Gln Asp Ala Val Pro Glu 245 250 255
- Ser Pro Ser Lys Leu Ser Ser Lys Arg Pro Lys Gly Ile Leu Lys Lys 260 265 270
- Arg Ser Asn Ser Glu His Arg Ser His Ser Thr Gly Phe Ile Glu Gly 275 280 285
- Val Val Gly Pro Ala Leu Pro Ser Thr Phe Lys Met Glu Gln Asp Leu 290 295 300
- Cys Arg Thr Gly Val Leu Leu Pro Ser Ser Pro Glu Ala Glu Val Pro 305 310 315 320
- Gly Lys Leu Ser Pro Lys Gln Ser Ala Thr Met Pro Lys Lys Gly Ile 325 330 335
- Leu Lys Lys Thr Gln Gln Arg Glu Ser Gly Tyr Tyr Ser Ser Pro Glu 340 345 350
- Arg Ser Glu Ser Ser Glu Leu Leu Asp Ser Asn Asp Val Met Gly Ser 355 360 365
- Ser Ile Pro Ser Pro Ser Pro Pro Asp Pro Ala Arg Val Thr Ser His
- Ser Leu Ser Cys Arg Arg Lys Gly Ile Leu Lys His Ser Ser Lys Tyr

385 390 395 400 Ser Ala Gly Thr Met Asp Pro Ala Leu Val Ser Arg Glu Met Pro Thr 410 Leu Glu Ser Leu Ser Glu Pro Gly Val Pro Ala Glu Gly Leu Ser Arg 420 425 Ser Tyr Ser Arg Pro Ser Ser Val Ile Ser Asp Asp Ser Val Leu Ser 440 Ser Asp Ser Phe Asp Leu Leu Asp Leu Gln Glu Asn Arg Pro Ala Arg Gln Arg Ile Arg Ser Cys Val Ser Ala Glu Asn Phe Leu Gln Ile Gln 475 Asp Phe Glu Gly Leu Gln Asn Arg Pro Arg Pro Gln Tyr Leu Lys Arg Tyr Arg Asn Arg Leu Ala Asp Ser Ser Phe Ser Leu Leu Thr Asp Met Asp Asp Val Thr Gln Val Tyr Lys Gln Ala Leu Glu Ile Cys Ser Lys Leu Asn 530 <210> 21 <211> 728 <212> PRT <213> Homo sapiens <400> 21 Met Leu Arg His Leu Arg Ala Thr Asp Ala Met Lys Asn Phe Ser Glu 10 Phe Arg Gln Glu Ala Ser Met Leu His Ala Leu Gln His Pro Cys Ile 20 25 30 Val Ala Leu Ile Gly Ile Ser Ile His Pro Leu Cys Phe Ala Leu Glu . 40 Leu Ala Pro Leu Ser Ser Leu Asn Thr Val Leu Ser Glu Asn Ala Arg 50 55 Asp Ser Ser Phe Ile Pro Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser Asp Asn Ile Leu Val Trp Ser Leu Asp Val 100 Lys Glu His Ile Asn Ile Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln

		115					120					125			
Ser	Phe 130	His	Glu	Gly	Ala	Leu 135	Gly	Val	Glu	Gly	Thr 140	Pro	Gly	Tyr	Gln
Ala 145	Pro	Glu	Ile	Arg	Pro 150	Arg	Ile	Val	Tyr	Asp 155	Glu	Lys	Val	Asp	Met 160
Phe	Ser	Tyr	Gly	Met 165	Val	Leu	Tyr	Glu	Leu 170	Leu	Ser	Gly	Gln	Arg 175	Pro
Ala	Leu	Gly	His 180	His	Gln	Leu	Gln	Ile 185	Ala	Lys	Lys	Leu	Ser 190	Lys	Gly
Ile	Arg	Pro 195	Val	Leu	Gly	Gln	Pro 200	Glu	Glu	Val	Gln	Phe 205	Arg	Arg	Leu
Gln	Ala 210	Leu	Met	Met	Glu	Cys 215	Trp	Asp	Thr	Lys	Pro 220	Glu	Lys	Arg	Pro
Leu 225	Ala	Leu	Ser	Val	Val 230	Ser	Gln	Met	Lys	Asp 235	Pro	Thr	Phe	Ala	Thr 240
Phe	Met	Tyr	Glu	Leu 245	Cys	Cys	Gly	Lys	Gln 250	Thr	Ala	Phe	Phe	Ser 255	Ser
Gln	Gly	Gln	Glu 260	Tyr	Thr	Val	Val	Phe 265	Trp	Asp	Gly	Lys	Glu 270	Glu	Ser
Arg	Asn	Tyr 275	Thr	Val	Val	Asn	Thr 280	Glu	Lys	Gly	Leu	Met 285	Glu	Val	Gln
Arg	Met 290	Cys	Cys	Pro	Gly	Met 295	Lys	Val	Ser	Cys	Gln 300	Leu	Gln	Val	Gln
Arg 305	Ser	Leu	Trp	Thr	Ala 310	Thr	Glu	Asp	Gln	Lys 315	Ile	Tyr	Ile	Tyr	Thr 320
Leu	Lys	Gly	Met	Cys 325	Pro	Leu	Asn	Thr	Pro 330	Gln	Gln	Ala	Leu	Asp 335	Thr
Pro	Ala	Val	Val 340	Thr	Cys	Phe	Leu	Ala 345	Val	Pro	Val	Ile	Lys 350	Lys	Asn
Ser	Tyr	Leu 355	Val	Leu	Ala	Gly	Leu 360	Ala	Asp	Gly	Leu	Val 365	Ala	Val	Phe
Pro	Val 370	Val	Arg	Gly	Thr	Pro 375	Lys	Asp	Ser	Cys	Ser 380	Tyr	Leu	Cys	Ser
His 385	Thr	Ala	Asn	Arg	Ser 390	Lys	Phe	Ser	Ile	Ala 395	Asp	Glu	Asp	Ala	Arg 400
Gln	Asn	Pro	Tyr	Pro 405	Val	Lys	Ala	Met	Glu 410	Val	Val	Asn	Ser	Gly 415	Ser
Glu	Val	Trp	Tyr 420	Ser	Asn	Gly	Pro	Gly 425	Leu	Leu	Val	Ile	Asp 430	Cys	Ala

Ser Leu Glu Ile Cys Arg Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys Ser Ser Glu Gly Arg Gly Glu Glu Val Val 455 Trp Cys Leu Asp Asp Lys Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu 490 Arg Asp Met Phe Pro Val Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro Lys Val Pro Glu Gly Asp Ser Ile Ala Asp 520 Val Ser Ile Met Tyr Ser Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Val Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly Ala Ala Ser Asp Arg Ser Glu His Asp Leu 595 Thr Pro Met Asp Gly Glu Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp Leu Ile Trp Val Pro Arg Arg Gly Asp 625 630 635 Val Ile Val Ile Gly Leu Glu Lys Asp Ser Glu Ala Gln Arg Gly Arg 650 Val Ile Ala Val Leu Lys Ala Arg Glu Leu Thr Pro His Gly Val Leu 665 670

690 695 700

Arg Glu Phe Asp Ile Phe Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu
705 710 715 720

Val Asp Ala Ala Val Val Ala Lys Asp Thr Val Val Cys Thr Phe Glu 675 680 685

Asn Glu Asn Thr Glu Trp Cys Leu Ala Val Trp Arg Gly Trp Gly Ala

Glu Ala Cys Thr Arg Lys Arg Arg

<210> 22

<211> 253

<212> PRT

<213> Homo sapiens

<400> 22

Met Leu Leu His Thr Glu Tyr Ser Leu Leu Ser Leu Leu His Thr Gln
1 5 10 15

Asp Gly Val Val His His Gly Leu Phe Gln Asp Arg Thr Cys Glu
20 25 30

Ile Val Glu Asp Thr Glu Ser Ser Arg Met Val Lys Lys Met Lys Lys
35 40 45

Arg Ile Cys Leu Val Leu Asp Cys Leu Cys Ala His Asp Phe Ser Asp 50 55 60

Lys Thr Ala Asp Leu Ile Asn Leu Gln His Tyr Val Ile Lys Glu Lys 65 70 75 80

Arg Leu Ser Glu Arg Glu Thr Val Val Ile Phe Tyr Asp Val Val Arg 85 90 95

Val Val Glu Ala Leu His Gln Lys Asn Ile Val His Arg Asp Leu Lys 100 105 110

Leu Gly Asn Met Val Leu Asn Lys Arg Thr His Arg Ile Thr Ile Thr 115 120 125

Asn Phe Cys Leu Gly Lys His Leu Val Ser Glu Gly Asp Leu Leu Lys 130 135 140

Asp Gln Arg Gly Ser Pro Ala Tyr Ile Ser Pro Asp Gly Ser Ala Ala 145 150 155 160

Gly Arg Thr Val Ala Ser Pro Val Thr Cys Gly Pro Trp Ala Trp Cys 165 170 175

Ser Ser Pro Cys Cys Met Ala Ser Ser Pro Ser Thr Thr Ala Ser Arg

Arg Ser Ser Ser Ala Arg Ser Arg Leu Pro Ser Ile Pro Phe Leu Arg 195 200 205

Met Asp Gly Phe Leu Arg Thr Pro Cys Val Ser Ser Gly Ser Cys Trp 210 215 220

Ser Leu Thr Pro Ser Ser Ala Trp Pro Pro Pro Thr Ser Trp Arg Pro 225 230 235 240

Ser Val Pro Ser Leu His His Gly Ser Pro Cys His Leu 245 250

<210> 23

<211> 131

<212> PRT

<213> Homo sapiens

<400> 23

Met Ala Gly Gln Pro Gly His Met Pro His Gly Gly Ser Ser Asn Asn 1 5 10 15

Leu Cys His Thr Leu Gly Pro Val His Pro Pro Asp Pro Gln Arg His
20 25 30

Pro Asn Thr Leu Ser Phe Arg Cys Ser Leu Ala Asp Phe Gln Ile Glu
35 40 45

Lys Lys Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Lys Ala Thr Cys
50 60

Leu Leu Asp Arg Lys Thr Val Ala Leu Lys Lys Val Gln Ile Phe Glu 65 70 75 80

Met Met Asp Ala Lys Ala Arg Gln Asp Cys Val Lys Glu Ile Gly Leu 85 90 95

Leu Lys Gln Leu Asn His Pro Asn Ile Ile Lys Tyr Leu Asp Ser Phe
100 105 110

Thr Glu Thr Ser Ser Leu Pro Thr Cys Ser Ser Gln Pro Ala Pro Leu 115 120 125

Cys Leu Thr 130

<210> 24

<211> 104

<212> PRT

<213> Homo sapiens

<400> 24

Met Val Thr Leu Gly Ala Pro Pro Tyr Pro Glu Val Pro Pro Thr Ser 1 5 10 15

Ile Leu Glu His Leu Gln Arg Arg Lys Ile Met Lys Arg Pro Ser Ser 20 25 30

Cys Thr His Thr Met Tyr Ser Ile Met Lys Ser Cys Trp Arg Trp Arg 35 40 45

Glu Ala Asp Arg Pro Ser Pro Arg Glu Leu Arg Leu Arg Leu Glu Ala
50 55 60

Ala Ile Lys Thr Ala Asp Asp Glu Ala Val Leu Gln Val Pro Glu Leu 65 70 75 80

Val Val Pro Glu Leu Tyr Ala Ala Val Ala Gly Ile Arg Val Glu Ser 85 90 95

Leu Phe Tyr Asn Tyr Ser Met Leu 100 <210> 25

<211> 109

<212> PRT

<213> Homo sapiens

<400> 25

Met Thr Gln Glu Val Val Thr Gln Tyr Tyr Arg Ala Pro Glu Ile Leu 1 5 10 15

Met Gly Ser Arg His Tyr Ser Asn Ala Ile Asp Ile Trp Ser Val Gly
20 25 30

Cys Ile Phe Ala Glu Leu Leu Gly Arg Arg Ile Leu Phe Gln Ala Gln
35 40 45

Ser Pro Ile Gln Gln Leu Asp Leu Ile Thr Asp Leu Leu Gly Thr Pro
50 60

Ser Leu Glu Ala Met Arg Thr Ala Cys Glu Gly Ala Lys Ala His Ile 65 70 75 80

Leu Arg Gly Pro His Lys Gln Val Arg Gly Gly Asn Leu Phe Leu
85 90 95

Val Thr Ile Cys Leu Gly Lys Ile Ser Leu Pro Ile Glu 100 105

<210> 26

<211> 242

<212> PRT

<213> Homo sapiens

<400> 26

Gly Thr Arg Asp Lys Lys Leu Trp Arg Thr Phe Phe Ile Ser Pro Ala 1 5 10 15

Asn Asn Ile Cys Phe Tyr Gly Glu Cys Ser Tyr Tyr Cys Ser Thr Glu 20 25 30

His Ala Leu Cys Gly Lys Pro Asp Gln Ile Glu Gly Ser Leu Ala Ala 35 40 45

Phe Leu Pro Asp Leu Ser Leu Ala Lys Arg Lys Thr Trp Arg Asn Pro 50 55 60

Trp Arg Arg Ser Tyr His Lys Arg Lys Lys Ala Glu Trp Glu Val Asp
65 70 75 80

Pro Asp Tyr Cys Glu Glu Val Lys Gln Thr Pro Pro Tyr Asp Ser Ser 90 95

His Arg Ile Leu Asp Val Met Asp Met Thr Ile Phe Asp Phe Leu Met

Gly Asn Met Asp Arg His His Tyr Glu Thr Phe Glu Lys Phe Gly Asn

120 115 Glu Thr Phe Ile Ile His Leu Asp Asn Gly Arg Gly Phe Gly Lys Tyr 135 Ser His Asp Glu Leu Ser Ile Leu Val Pro Leu Gln Gln Cys Cys Arg Ile Arg Lys Ser Thr Tyr Leu Arg Leu Gln Leu Leu Ala Lys Glu Glu 170 Tyr Lys Leu Ser Leu Leu Met Ala Glu Ser Leu Arg Gly Asp Gln Val 185 Ala Pro Val Leu Tyr Gln Pro His Leu Glu Ala Leu Asp Arg Arg Leu 200 Arg Val Val Leu Lys Ala Val Arg Asp Cys Val Glu Arg Asp Gly Leu His Ser Val Val Asp Asp Asp Leu Asp Thr Glu His Arg Ala Ala Ser Ala Arg <210> 27 <211> 70 <212> PRT <213> Homo sapiens <400> 27 Met Tyr Asn Ser Val Lys Gly Ser Cys Ser Glu Pro Val Ser Phe Thr 10 Thr His Ser Cys Ala Pro Glu Cys Pro Phe Pro Pro Lys Leu Ala His Arg Ser Lys Ser Ser Leu Thr Leu Gln Trp Lys Ala Pro Ile Asp Asn 35 40 Gly Ser Lys Ile Thr Asn Tyr Leu Leu Glu Trp Asp Glu Val Ser Leu Phe Ser Tyr Ser Pro Ile 65 <210> 28 <211> 15 <212> PRT <213> Homo sapiens <400> 28 Lys Ile Lys Thr Leu Gly Ile Gly Ala Phe Gly Glu Val Cys Leu 5

<210> 29 <211> 39 <212> PRT <213> Homo sapiens <400> 29 Thr Ser Ser Ala Gly Asp Ser Glu Ala Thr Asp Arg Pro Arg Pro Gly 10 Asp Leu Cys Pro Pro Ser Lys Asp Gly Asp Ala Ser Gly Pro Arg Ala 25 Thr Asn Asp Leu Val Leu Arg 35 <210> 30 <211> 38 <212> PRT <213> Homo sapiens Val Ile Lys Ser Ala Ser Ala Thr Ala Leu Ser Val Met Ile Pro Ala Val Asp Pro His Gly Ser Ser Pro Leu Ala Ser Pro Met Ser Pro Arg 25 Ser Leu Ser Ser Asn Pro 35 <210> 31 <211> 30 <212> PRT <213> Homo sapiens <400> 31 Arg Ser Thr Pro Asp Ser Ala Tyr Leu Gly Ala Ser Ser Gln Ser Ser 5 10 Ser Pro Ala Ser Ser Thr Pro Asn Ser Pro Ala Ser Ser Ala 20 25 <210> 32 <211> 55 <212> PRT <213> Homo sapiens <400> 32 Gly Thr Ser Ile Leu Gly Pro Arg Leu Gly Asn Ser Pro Val Pro Ser Ile Val Gln Cys Leu Ala Arg Lys Asp Gly Thr Asp Asp Phe Tyr Gln Leu Lys Ile Leu Thr Leu Glu Glu Arg Gly Asp Gln Gly Ile Glu Ser 35 40 45

Gln Glu Glu Arg Gln Gly Lys 50 55

<210> 33

<211> 76

<212> PRT

<213> Homo sapiens

<400> 33

Pro Gly Ser Leu Glu Gln Leu Arg Pro Gln Gly Ser Ala Gly Ser Pro 1 5 10 15

Lys Gly Cys Pro Ala Leu Gln Gln Met Leu Lys Ala Glu Gln Leu Arg 20 25 30

Glu Gly Arg Trp Pro His Val Thr Asp Gly Gln Ile Pro Lys Ser Phe 35 40 45

Leu Tyr Thr Val Val Asp Asn Leu Ser Trp Val Asn Lys Gly Arg Trp 50 55 60

Phe Ser Glu Pro Arg Gln Pro Pro Val Ser Gly Leu 65 70 75

<210> 34

<211> 49

<212> PRT

<213> Homo sapiens

<400> 34

Val Ile Ser Gly Leu Lys Tyr Leu His Ser Ala Gly Ile Leu His Arg
1 5 10 15

Asp Ile Lys Pro Gly Asn Leu Leu Val Asn Ser Asn Cys Val Leu Lys 20 25 30

Ile Cys Asp Phe Gly Leu Ala Arg Val Glu Glu Leu Asp Glu Ser Arg 35 40 45

His